ombran ASP

Cement-bound sealing slurry with high sulphate resistance

BE SURE. BUILD SURE.

PRODUCT PROPERTIES

- Cement-bounded, one-component, C3A-free binding agent
- Impermeable to water
- Allows diffusion of water vapour
- Frost-resistant
- Resistant to very severe sulphate attack
- Good adhesion on mineral and cement-bound substrates
- Hand and spray application

AREAS OF APPLICATION

- Sealing of ground-connected construction parts, e. g. concrete and masonry sewers, tanks
- Sealing against capillary water, rising damp and pressurised surface water
- REACh-assessed exposure scenarios: periodical inhalation, application

APPLICATION ADVICE

Substrate Preparation: The substrate must be clean and free from loose matter, dust, oil, grease, cement slurries and other contaminants. The adhesive tensile strength of the substrate surface must conform to the relevant technical regulations.
After preparation the substrate must show sufficient surface roughness. To achieve this the surface-near aggregates must be exposed. Sewer masonry needs to be prepared so that the masonry exhibits sufficient surface roughness. For further information see general application advices “Substrates and substrate preparation for rehabilitation of manholes and sewage structure”.

Pre-Wetting / Bonding Agent: Use of bonding agents is not allowed. Prior to the application of sealing slurries dry substrates are to be pre-wetted until a matt-moist and not water-saturated substrate is given. In case of highly absorbent substrates a repeated pre-wetting might be necessary. In case of highly moisturised substrates (water-saturated / showing a closed waterfilm) pre-sealing by ombran IW is necessary.

Mixing: The mineral sealing slurry is made up using ready-mixed ombran ASP and water. Pour out the major part of the water, scatter the ready-mix mortar on it and mix to a uniform, lump-free consistency. The rest of the water is used to adjust the consistency as necessary. Pug mill mixers and slow-running double stirrers are suitable for mixing the mortar. Mixing by hand and the mixing of partial quantities is not allowed. The mixing time is 3minutes.

Mixing Ratio: About 5.5 to 6.8 litres of water are needed for a 25 kg sack of ombran ASP. Since ombran ASP is cement-bound, the amount of water needed may vary.

Application: Depending on the area of application, apply in at least 2 coats using a brush, trowel or spraying method. Ensure an even layer thickness per application. Corners and smoothed edges must be slurried with particular care. In case of multi-layer application, the previous layer must be cured before applying each additional layer, so that it is not damaged by the following work step. Between the individual working steps, the waiting time according to the table "Technical values & product characteristics" must be observed. For application by wet spraying, please request technical advice from our application technology department.

Application Conditions: Application time depends on climatic conditions. Material which has begun to stiffen must not be mixed or used again. The minimum application temperatures for substrates, air and materials must be observed. At temperatures below + 5°C application must be stopped. All necessary measures to prevent the temperature from falling below during the curing phase must be taken.

Curing: During curing, ombran ASP must be protected from excessive water loss for at least 72 h (chemical curing, jute sacking, foil etc.). Particular attention must be given to the relevant effects of temperature and wind. If further coats or other products are to be applied, curing agents with a separating effect must not be used.

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TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	25 : 5.5 - 6.8	powder component : water
Maximum grain size	mm	approx. 1	
Working time	minutes	approx. 60	
Application conditions	°C	≥ 10 ≤ 30	air and substrate temperatures
		≥ 10 ≤ 25	material temperature
Consumption (flat)[1)]	kg/m²/mm	1.6	factory-dried mortar
Fresh mortar bulk density	kg/dm³	approx. 2	
Compressive strength (strength development)	N/mm²		
24 h		approx. 16	
7 d		approx. 35	
28 d		approx. 40	
Layer thickness	mm		
		≥ 1	per operation
		≤ 2	per operation
		approx. 4	maximum total layer thickness
Layer thickness			
In min. 2 layers		> 2	under conditions of ground moisture and non accumulating water
In min. 3 layers		> 3	under conditions of accumulating seepage water and pressing water
Waiting times	hours	approx. 6 - 24	between application of the layers
		approx. 24	exposure to water
	All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.		

1) object specific

Colour	grey
Storage	Can be stored in original sealed packages at temperatures between 5°C and 25°C in dry conditions for at least 12 months.
Equipment cleaning agent	water
Packaging disposal	Make sure single-use containers are completely empty.
Delivery form	25 kg bag

Safety instructions
Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : ZP1

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